

# ZAKARIYAE BELAGRAA

Cybersecurity Engineering Student | Full Stack Developer | Ethical Hacker  
Specialized in Web Security, Penetration Testing & Secure Application Development

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## PROFESSIONAL SUMMARY

Passionate Cybersecurity Engineering student with 2+ years of hands-on experience in full-stack development and mobile application creation. Proven track record in building secure, scalable applications using Laravel, React, Node.js, and Firebase. Successfully delivered enterprise-level solutions for judicial system management and industrial risk assessment. Currently specializing in ethical hacking, penetration testing, and secure development practices. Ranked in top percentiles of international CTF competitions with strong expertise in web exploitation, binary analysis, and vulnerability assessment.

## EDUCATION

### Engineering Degree in Cybersecurity & Digital Trust

ENSET Mohammedia, Morocco

Sept 2024 - June 2027

(Expected)

Specialization: Ethical Hacking, Penetration Testing, Secure Development

### University Diploma in Technology (DUT) - Software Engineering

Sept 2022 - June 2024

École Supérieure de Technologie de Meknès (ESTM)

Focus: Web Development, Mobile Applications, Database Management

## PROFESSIONAL EXPERIENCE

### Mobile Developer Intern

LafargeHolcim Morocco - Industrial Risk Management System

April 2024 - May 2024

Fès-Meknès, Morocco

Designed and developed a comprehensive mobile risk management application serving 100+ employees, significantly enhancing workplace safety protocols.

- Built scalable Android application using **Java** and **Firebase** with 99.9% uptime and real-time data synchronization
- Implemented automated risk reporting and assignment system, reducing incident resolution time by **40%**
- Developed dynamic issue tracking dashboard, decreasing administrative workload by **30%**
- Integrated intelligent database updates and automated case closure, improving data integrity and system performance
- Applied secure coding practices and implemented proper authentication mechanisms

### Web Developer Intern

Court of Appeal - Judicial Case Management System

July 2023 - Aug 2023

Fès-Meknès, Morocco

Developed a comprehensive judicial case management system, improving document tracking efficiency by **50%** for legal proceedings.

- Built secure web application using **HTML5, CSS3, PHP, JavaScript** managing 1,000+ confidential case files
- Automated inventory list generation, reducing manual processing time by **60%**
- Designed user-friendly document printing system with role-based access control
- Implemented data validation and sanitization to prevent security vulnerabilities

## KEY PROJECTS

### SmartRisk - QR-Based Risk Management Platform

April 2024 - May 2024 / Java, Firebase, Android SDK

Enterprise-grade mobile application that revolutionizes workplace risk management through QR code technology, enabling instant problem reporting and automated team assignment with real-time intervention tracking.

### ClassTalk - Educational Collaboration Platform

December 2023 - April 2024 | React, Node.js, Socket.io, MongoDB

Innovative platform combining Google Classroom functionality with real-time messaging, facilitating seamless teacher-student interaction through virtual classroom management, task assignment, and personalized feedback systems.

### Digital Case Management System

July 2023 | PHP, MySQL, JavaScript

Secure web application for Court of Appeal case management with dynamic document handling, division-based filtering, and automated report generation capabilities.

### Simplified Bus Management CLI System

April 2023 | C, Data Structures, Algorithms

Command-line application with secure authentication system for comprehensive bus fleet management, utilizing linked lists and sorting algorithms for efficient data handling.

## CYBERSECURITY EXPERTISE

### Security Tools & Frameworks

- Vulnerability Assessment:** Nessus, OpenVAS, Nikto
- Penetration Testing:** Metasploit, Burp Suite, ZAP Proxy
- Network Analysis:** Wireshark, Nmap, RustScan
- Web Security:** SQLmap, WpScan, Gobuster
- Digital Forensics:** Volatility, Binwalk, Autopsy
- Reverse Engineering:** Ghidra, GDB, Radare2

- Password Security:** John the Ripper, Hashcat
- Threat Intelligence:** MITRE ATT&CK, OSINT Tools

### Technical Specializations

- Web Application Security Testing
- Binary Exploitation & Reverse Engineering
- Malware Analysis & Detection
- Cryptography & Steganography
- Network Penetration Testing
- OSINT & Social Engineering
- Secure Code Review
- Incident Response & Forensics

## TECHNICAL SKILLS

### Programming Languages

- Proficient:** Java, PHP, JavaScript, Python, C
- Familiar:** SQL, Bash, PowerShell, Assembly

- Mobile:** Android SDK, Firebase

- Database:** MySQL, MongoDB, PostgreSQL

- Cloud:** AWS, Google Cloud Platform

- DevOps:** Docker, Git, Linux Administration

### Frameworks & Technologies

- Web:** Laravel, React.js, Node.js, Express.js

## COMPETITIVE ACHIEVEMENTS

- Top 100 Global Ranking** - DAWG CTF International Competition
- Top 15 National Placement** - MCSC V12 Cybersecurity Championship
- Top 15 Continental Ranking** - GITEX Global CTF (Splunk/Cisco/DGSSI Categories)
- 4th Place** - Memorial Cybersecurity Day 2nd Edition CTF (CyberForces)
- Top 2% Worldwide** - TryHackMe Platform Global Leaderboard
- Multiple Top 100** - Various International CTF Competitions
- Consistent Top 15** - National and Continental Cybersecurity Challenges

## LANGUAGES

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- **Arabic:** Native
- **French:** Fluent (Professional Working Proficiency)
- **English:** Advanced (Professional Working Proficiency)

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

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- **CCNA** - Cisco Certified Network Associate (In Progress)
- **Ethical Hacking Methodologies** - Self-directed learning and practical application
- **Secure Coding Practices** - Applied in professional and academic projects

## VOLUNTEER EXPERIENCE & LEADERSHIP

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### CTF Challenge Developer

**ENSET Mohammedia**

**2024 - Present**

Design and develop challenging cybersecurity puzzles in Miscellaneous and Web Exploitation categories for academic competitions, contributing to cybersecurity education and skill development.